

Claims

1.

1 A finish on a hollow plastic preform or container, which includes:
2 a neck that is at least partly of crystallizable polymer construction and is at least
3 partially crystallized, and
4 a finish ring externally secured over said neck.

2.

1 The finish set forth in claim 1 wherein said neck is of molded plastic construction,
2 and is expanded subsequent to molding and prior to external securement of said finish ring.

3.

1 A finish on a hollow plastic preform or container having an integral body, said
2 finish including:
3 a neck integrally molded with said body, said neck being circumferentially
4 expanded subsequent to molding and being at least partially crystallized subsequent to expansion,
5 and
6 a finish ring externally secured to said neck subsequent to crystallizing said neck,
7 said finish ring having at least one external thread or bead for securement of a closure.

4.

1 The finish set forth in claim 3 wherein said finish ring is externally secured to said
2 neck by interference fit, adhesive or welding.

5.

1 The finish set forth in claim 3 wherein said finish ring is of a different plastic
2 material construction from said neck.

6.

1 A method of making a finish on a hollow plastic preform or container, which
2 includes the steps of:

3 (a) providing a molded plastic neck that is at least partially of crystallizable
4 polymer construction,

5 (b) circumferentially expanding said neck,

6 (c) at least partially crystallizing said neck after expansion in said step (b), and

7 (d) securing a finish ring externally over said neck subsequent to said step (c).

7.

1 The method set forth in claim 6 wherein said finish ring is externally secured to
2 said neck by interference fit, adhesive or welding.

8.

1 The method set forth in claim 6 wherein said plastic finish ring is of a different
2 material construction from said neck.

9.

1 A method of making a plastic container having a body and a finish with at least
2 one external thread, which includes the steps of:

- 3 (a) providing a plastic preform having a body and a neck,
4 (b) blow molding said body of said preform to form the body of the container,
5 (c) either prior to or subsequent to said step (b), expanding said preform neck,
6 (d) at least partially crystallizing said neck subsequent to said step (c),
7 (e) providing a plastic finish ring having at least one external thread, and
8 (f) securing said finish ring to an external surface of said neck after expansion
9 of said neck in said step (c), and either prior to or subsequent to said step (b).

10.

1 A method of making a preform assembly for blow molding a container, which
2 includes the steps of:

- 3 (a) providing a molded plastic preform having a body and a cylindrical neck
4 with an external surface,
5 (b) expanding said preform neck,
6 (c) at least partially crystallizing said neck subsequent to said step (b),
7 (d) providing a molded plastic finish ring, and
8 (e) securing said finish ring to the external surface of the preform neck after
9 expansion in said step (b) and crystallization in said step (c).